

In the Claims

1-116. (Cancelled)

117. (Currently amended) A yield monitor for a forage accumulating machinery, comprising:

a volume increment accumulation measuring device generating a volume increment accumulation signal substantially related to a forage mass yield amount; and
a computer that receives said volume increment accumulation signal and generates a yield amount based upon said accumulation signal, a forage processing machinery groundspeed, and forage processing machinery intake parameters.

118. (Original) The yield monitor of claim 117, wherein said forage processing machinery intake parameters comprise a cut width, a bale cross-section, and a bale chamber density/pressure.

119. (Original) The yield monitor of claim 117, wherein said forage accumulating machinery comprises a square baler.

120. (Original) The yield monitor of claim 117, wherein said forage accumulating machinery comprises a square baler and wherein said volume increment accumulation measuring device comprises a bale travel sensor.

121. (Original) The yield monitor of claim 117, wherein said forage accumulating machinery comprises a square baler and wherein said volume increment accumulation measuring device comprises a measuring wheel that rotates in response to a movement of a forming bale.

122. (Original) The yield monitor of claim 117, wherein said forage accumulating machinery comprises a square baler and wherein said volume increment accumulation measuring device comprises a force measuring device capable of measuring a force applied to a baler compression plunger.

123. (Original) The yield monitor of claim 117, wherein said forage accumulating machinery comprises a square baler and wherein said volume increment accumulation measuring device comprises a hydraulic pressure measuring device that measures a hydraulic pressure, with said hydraulic pressure being used to drive a baler compression plunger.

124. (Original) The yield monitor of claim 117, wherein said forage accumulating machinery comprises a square baler and wherein said volume increment accumulation measuring device comprises a force measuring device capable of measuring a force applied to a baler compression plunger, and wherein said computer uses an average force level in said force measuring device to generate said yield amount.

125. (Original) The yield monitor of claim 117, wherein said forage accumulating machinery comprises a square baler and wherein said volume increment accumulation measuring device comprises a force measuring device capable of measuring a force applied to a baler compression plunger, and wherein said computer uses a time interval between force pulses in said force measuring device to generate said yield amount.

126. (Original) The yield monitor of claim 117, wherein said forage accumulating machinery comprises a square baler and wherein said volume increment accumulation measuring device comprises a force measuring device capable of measuring a force applied to a baler compression plunger, and wherein said computer uses a compression plunger force pulse width in said force measuring device to generate said yield amount.

127. (Original) The yield monitor of claim 117, wherein said yield monitor generates a groundspeed control signal from said yield amount, with said groundspeed control signal capable of being used by said forage processing machinery to control a forage processing machinery groundspeed.

128-146. (cancelled)